



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

MF

7c

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
-----------------	-------------	----------------------	---------------------

09/498,618 02/07/00 ARAI

I HIT 2 690-07

024956 WM01/0312
MATTINGLY, STANGER & MALUR, P.C.
104 E HUME AVE
ALEXANDRIA VA 22301

EXAMINER

NGUYEN, C	
ART UNIT	PAPER NUMBER

2675
DATE MAILED:

10
03/12/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

25

Office Action Summary

Application No.

09/448,618

Applicant(s)

ARAI et al

Examiner

CHANH NGUYEN

Group Art Unit

2875

--The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address--

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 (THREE) MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- ☒ Responsive to communication(s) filed on December 21, 2000
- ☒ This action is **FINAL**.
- ☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- ☒ Claim(s) 16-26 is/are pending in the application.
- Of the above claim(s) _____ is/are withdrawn from consideration.
- ☐ Claim(s) _____ is/are allowed.
- ☒ Claim(s) 16-20, 22 and 24-26 is/are rejected.
- ☒ Claim(s) 21 and 23 is/are objected to.
- ☐ Claim(s) _____ are subject to restriction or election requirement.

Application Papers

- ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.
- ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
 - ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received.
 - ☐ received in Application No. (Series Code/Serial Number) _____
 - ☐ received in this national stage application from the International Bureau (PCT Rule 1.7.2(a)).

*Certified copies not received: _____

Attachment(s)

- ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____
- ☐ Interview Summary, PTO-413
- ☐ Notice of Reference(s) Cited, PTO-892
- ☐ Notice of Informal Patent Application, PTO-152
- ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Other _____

Office Action Summary

Art Unit: 2675

DETAILED ACTION

Response to Amendment

1. The amendment filed on December 21, 2000 has been entered and considered by Examiner.

Claim Objections

2. Claims 21 and 22 are objected to because of the following informalities:

The spelling "conformation" recited on line 3 of claim 21 should be changed to "confirmation".

The term "a external computer" recited in claim 22, line 2 should be changed to the term "an external computer". Appropriate correction is required.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2675

4. Claims 16-20, 22 and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zenda (U.S. Patent No. 4,990,904) or Tomiyasu (U.S. Patent No. 5,138,305) in view of Satoh (U.S. Patent No. 5,068,732).

As to claim 16, Zenda discloses a display apparatus (e.g, 19) which receives a video signal and a synchronization signal (e.g, video signal, horizontal sync, vertical sync as shown in figures 3 and 5), and which displays an image in accordance with the video signal and the sync signal on a screen; see column 3, lines 15-25. Zenda teaches an interface circuit which receives a control signal (e.g, a CGA or an EGA display mode write signal in AAS processing or "MASC GA", "MASEGA" command signal) which is generated by a program that is previously programmed by a computer for operating a computer body; see column 3, lines 44-60 and column 4, lines 31-40. Zenda teaches a memory (e.g, display timing register 25) storing control data concerning display control, the stored control data is read out by the control signal from the interface circuit; see column 4, lines 12-28. The claim memory is also so broad that it reads on display timing parameter memory means of Zenda which can on the memory as recited in the claim since Zenda clearly states that "display timing parameter memory means for storing a display timing parameter corresponding to one of the plurality of modes". Zenda teaches the displayed image adjusted in accordance with the control data which is read out from the memory (e.g, displayed image adjusted from 720 x 400 dots to 640 x 350 dots depending on different display modes); see column 2 lines 51 through column 3, line 14. As to the limitation "software", it believes that "DOS" disclosed by Zenda is software, DOS is not hardware. "DOS" is not

Art Unit: 2675

EEPROM as described by applicant in figure 6 and page 18 of the specification in this instant application, but the claim does not recite any EEPROM. Thus, the term "software" is so broad that it reads on DOS as taught by Zenda.

Zenda is silent whether the computer (CPU 9) is from inside display apparatus or from outside display apparatus (external computer) for generating sync signals. It appears that (CPU 9) of Zenda is located outside of the display apparatus (19). However, examiner cites the reference of Satoh to show the sync signals generated by computer or control device (200) which is not apart of the display apparatus (201). Satoh shows in figure 1 that the vertical sync and horizontal sync signals generated from an external control device or computer (200). That is computer or control device (200) is separate from the display apparatus (200). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have utilized the teaching of providing the computer outside of the display apparatus of Satoh to computer/display apparatus of Zenda so as to minimize the size of the display panel.

As to claim 19, this claim differs from claim 16 only in that the term "means" is additionally recited to the limitation "interface" and "memory". The scope of claim 19 is substantially duplicate to claim 16; thus, it is analyzed as previously discussed with respect to claim 16 above.

As to claim 17, this claim differs from claim 16 in that the limitations "a video circuit" and "driving circuit" are additionally recited. These limitation reads on the CRTC 23 as taught by Zenda.

Art Unit: 2675

As to claim 22, this claim is analyzed similar to claim 16 since Zenda clearly teaches the limitation adjusting the size of a display image. For example, the image display from 720 x 400 dots is adjusted to 640 x 350 dots.

Tomiyasu's device is similar to the device of Zenda which clearly teaches the limitations recited in claims 16-17 and 19.

As to claim 18 and 20, Zenda clearly teaches video signal carrying digital image data; see figures 3B.

As to claim 24-26, Zenda clearly teaches the limitation adjusting size and position of a display image as shown in figure 2A-2D. Since the resolution of the display image is changed in Zenda's device, it is clear that the brightness is also changed.

Allowable Subject Matter

5. Claims 21 and 23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments with respect to claims 16-26 have been considered but are moot in view of the new ground(s) of rejection.

Art Unit: 2675

Applicant cites column 4, line 61 to column 5, line 9 of Zenda to prove that the memory of Zenda is external to the display apparatus. This citation is not persuasive since the display apparatus recited in the claim reads on the display subsystem (19) of Zenda, and the display timing register or memory (25) is located inside the display apparatus (19).

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Art Unit: 2675

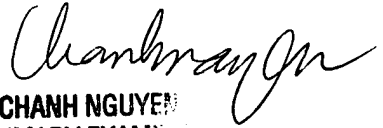
Inquiries

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chanh Nguyen whose telephone number is (703) 308-6603.

The appropriate fax phone number for the organization where this application or proceeding is assigned is (703) 308-6306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

CYN
C.Nguyen
March 9, 2001.


CHANH NGUYEN
PRIMARY EXAMINER